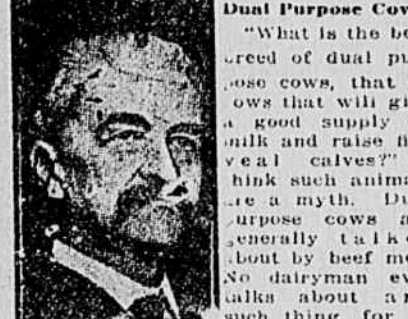


WITH THE FARMERS

By Prof. W. F. MASSEY

Thursday, January 15, 1914.



Dual Purpose Cows.
What is the best breed of dual purpose cows, that is, cows that will give a good supply of milk and raise fine veal calves? I think some animals are a myth. Dual purpose cows are generally talked about by beef men. No dairyman ever talks about any such thing, for he knows that the characteristics of the dairy and the beef animal are entirely distinct from each other, and cannot be combined profitably in one animal. Of course, you can get cows that will give you some milk and will make good veal calves, but if you have any cows better suited to the milk or butter, you cannot afford to lose \$20 worth of milk to get a \$10 calf. If your interest lies in beef stock, then get the best beef breed animal, the Polled Angus, Shorthorn or Hereford, and take what milk you can get. But if your interest is in the dairy, get the best breed for that purpose, Jersey or Guernsey for butter, or Holsteins for milk selling, and do not monkey with any half-and-half animal.

Seed Corn.
Please give me the address of some farmer from whom I can get the two-carrot corn you mentioned favorably to a correspondent? You can probably get a good quality of the Carrot corn by writing to Dr. C. B. Williams, Director of the North Carolina Experiment Station, Raleigh, N. C., right up under the Blue Ridge and corn brought there from the South would not do very well until acclimated. Then you have in your immediate neighborhood a corn that has made a great reputation for itself in Ohio, and it would be better in your case to stick to that and not get a mixture, but breed this corn to better shape by careful selection. I do not know any corn better suited to your valley than the white corn that is now so largely shipped West for seed. Better keep it pure.

Cannot Do It.
Will you kindly give me the address of the party alluded to in the enclosed clipping from The Times-Dispatch? I never use the names of my correspondents in the paper, and do not file their letters after visiting them, and if I kept these letters it would not be proper for me to give their address to every one asking it, since they may not wish to be bothered with correspondence. Therefore, it is useless to ask me for these addresses.

Some Mountain Products.
A friend in Allegheny County sends a very pretty photograph of his exhibit of corn, alfalfa, cabbage, turnips and peppers. He says that the corn made twenty tons of ensilage and the field corn made seventy-five bushels an acre. The alfalfa was sown at last working of his corn in 1912, and from the height of the man standing beside it in the picture, the corn seems to be about thirteen feet tall and the alfalfa four feet; a wonderful growth from sowing a year ago alone corn. He adds: "Now I want you to know that I have a great deal to do with the products shown in the photograph, for I have been following your advice for several years, and am sure that it has helped me a great deal. I have never used fertilizer on my corn, but have always tried to have some good crop to turn under for it, with some acid phosphate to supplement it. My farm is on the mountain and all steep, but by your advice for deep plowing, have gotten it all into a high state of cultivation, and I write this to thank you all you have done for me. Please keep trying the dog law, and perhaps we may get it after a while." Perhaps it is rather cheeky to print this, but I am always glad to know that what I have written has helped some one to better use of his soil, for that is what these columns are written for, and if we did not succeed in waking some one up to better practices, the work had as well stop.

Sundry Questions.
I moved to the farm last January, after being in other business for thirteen years, and I find many changes in farm management since I was a farmer before. On the 27th of last May I planted a patch of about an acre in rows three feet apart, and four to six inches in the row, and cultivated them during growth. Had nice vines and no peas. The whole acre did not make a gallon of peas. The peas I sowed were a mixture of about six varieties and the peas I made were all of one variety. Tell me why I made no peas. This fall I plowed and turned some in for winter wheat, and turned it with a two-horse plow, sowed the

seed, and cut them in with a disk harrow. I have since been told, by men I consider good farmers, that I will not make any wheat, and that it will not do to cut it in with a disk harrow. "To me it looks good, and the seed bed is perfect. Why will it not do to put wheat in with a disk harrow? Is corn and oats ground together in equal quantities a good ration for a calf?"

What the trouble with the peas was it is hard to say positively. Early sowing usually produces more vines than seed. The plants seem more fruitful from sowing last of June than earlier. Cowpeas are not heavy seed makers at best, and it may be that your soil lacked what is necessary for the best seed formation, phosphorus and potassium. You do not say what if anything you applied to the soil for the peas. I think that you would have had a better crop had you given the acre about 300 pounds of acid phosphate and twenty-five pounds of muriate of potash. My opinion is that it was the deficiency of these in the soil which caused the failure. The peas can get plenty of nitrogen from the air, and can therefore make a good growth of vines, but they cannot get the phosphate and potash from the air, and these are essential to the seed making. Plowing land and sowing wheat and disk it in is a very poor preparation for a wheat crop. In the first place, you made too little previous preparation of the soil. Wheat needs a well-timed and compacted soil after plowing, and the plowing should be a considerable time before sowing, and in the meantime the land should be harrowed over and over and tramped by teams to get it in a well-settled state. Then sowing the seed in with a disk harrow puts some in too deep and some not deep enough, and in the loosely prepared soil there will always be more winter-killing than in a well-prepared soil. The wheat should have been sown with a drill. This would have put the seed in at a uniform depth, so that they would all have germinated together. If your wheat passes the winter all right and the soil has fertility enough to make good wheat, you may make a moderately good crop, but would have a far better chance had the preparation been more complete, and the seed properly drilled in. Corn and oats ground together will make a good grain ration for a calf, but it should be three-fourths oats and one-fourth corn.

Preparing for Corn.
Land now in crimson clover is to be put in corn next spring, and a good phosphate or basic slag applied. Will it make as good corn to apply the phosphate during the winter on the clover, and turn it in when plowing, or should it be applied after plowing and harrowing? I read with much pleasure and profit what you write in The Times-Dispatch, and consider that you are doing much good, and have many favorable comments on them.

I think that the application of the phosphate now will have a far better effect on the corn than to apply it in the spring, since it will help the growth of the clover, and the more of that you have the better, and in turning under the clover you recover all of it. Nitrogen leaches rapidly from the soil, but it will always hold on to the phosphorus till some plant calls for it. Anything that will increase the growth of the clover will help the corn, by giving you a heavier growth to turn under. I believe, too, that the basic slag applied now will be better than acid phosphate, as it will carry a considerable percentage of lime, and that will help the clover, and the slag will have more time to become more available than freshly applied.

Soil Analysis.
Why will not the stations make soil analysis for the farmers? In the first place, they cannot afford to do so. To make a complete analysis of a soil will cost the chemist about \$15. Suppose that a station should offer to do this free; is it not easy to see that it would cost too much? Then, the chemist knows that the soil analysis will not help the farmer to learn what his soil needs. It will simply tell him what it contains, and nothing at all about the availability of the elements in the soil. A soil analysis is a good thing, but it is not a simple thing, and it is not a simple thing to make a soil analysis. A soil analysis is often very useful to the scientific soil investigator, but as a means for informing the farmer in regard to the needs of his soil in fertilizer, the analysis will be of very little value.

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BASEBALL STARTS SOON AT COLLEGE

Candidates Will Be Called by Coach Dobson on February 15.

Candidates for the baseball team of Richmond College will be called on February 15. This is the latest announcement of Coach Dobson. He feels that the weather will have become sufficiently settled by that time to admit of practice in the open. In the meantime he will have some of the men lumbering up under cover, particularly the pitching talent.

While early to make predictions, Coach Dobson seems every reason to believe that a corking good team will be turned out, and that the Spiders will repeat their successes on the gridiron by taking the baseball cup in the Eastern Virginia Intercollegiate Association. Of last year's letter men there will be Captain Newton Anagnost, who is almost sure of his position at second base, and Doc Scales, who were the mask and ball last season. He has been shifted to an infield position this year, as a youngster named Davis is touted as the fellow next spring, and a new recruit from Delaware, and is said to be quite a find. Lewis O'Neill and Flanagan, who played last season, will again be in the field. Flanagan, in addition to being a fielder of some talent, is a good pitcher, and may be developed into one of the mainstay boxmen. Park Rogers, a flinger from the team last year, may be in college this season, though he has not definitely decided whether he will remain in college or go to work. However, regardless of whether he is here or not, the Blackbirds school, there will be ample pitching material for the Spiders.

FAVORITES BRING MONEY TO BACKERS

Four First Choices Run to Form on Juarez Track—Crowd Pleased.

Juarez, January 14.—Four well-played favorites rewarded their backers this afternoon, and the form players fared very well on the day's operations. First race—six furlongs—Colquitt, 112 (Lofthus), 3 to 2, 3 to 1, 1 to 1, 1 to 2, 1 to 3, 1 to 4, 1 to 5, 1 to 6, 1 to 7, 1 to 8, 1 to 9, 1 to 10, 1 to 11, 1 to 12, 1 to 13, 1 to 14, 1 to 15, 1 to 16, 1 to 17, 1 to 18, 1 to 19, 1 to 20, 1 to 21, 1 to 22, 1 to 23, 1 to 24, 1 to 25, 1 to 26, 1 to 27, 1 to 28, 1 to 29, 1 to 30, 1 to 31, 1 to 32, 1 to 33, 1 to 34, 1 to 35, 1 to 36, 1 to 37, 1 to 38, 1 to 39, 1 to 40, 1 to 41, 1 to 42, 1 to 43, 1 to 44, 1 to 45, 1 to 46, 1 to 47, 1 to 48, 1 to 49, 1 to 50, 1 to 51, 1 to 52, 1 to 53, 1 to 54, 1 to 55, 1 to 56, 1 to 57, 1 to 58, 1 to 59, 1 to 60, 1 to 61, 1 to 62, 1 to 63, 1 to 64, 1 to 65, 1 to 66, 1 to 67, 1 to 68, 1 to 69, 1 to 70, 1 to 71, 1 to 72, 1 to 73, 1 to 74, 1 to 75, 1 to 76, 1 to 77, 1 to 78, 1 to 79, 1 to 80, 1 to 81, 1 to 82, 1 to 83, 1 to 84, 1 to 85, 1 to 86, 1 to 87, 1 to 88, 1 to 89, 1 to 90, 1 to 91, 1 to 92, 1 to 93, 1 to 94, 1 to 95, 1 to 96, 1 to 97, 1 to 98, 1 to 99, 1 to 100, 1 to 101, 1 to 102, 1 to 103, 1 to 104, 1 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